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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/630,089	07/30/2003	Nobuyuki Ito	1300-000001 8493			
27572	7590 03/06/2006		EXAMINER			
HARNESS,	DICKEY & PIERCE,	ROY, SIKHA				
P.O. BOX 82 BLOOMFIE	28 LD HILLS, MI 48303	ART UNIT	PAPER NUMBER			
	,		2879			
			DATE MAILED 02/06/000	DATE MAIL ED. 02/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	olication No. Applicant(s)					
		10/630,0	089	ITO ET AL.				
Office Action Summary			r	Art Unit				
		Sikha Ro	•	2879				
Period fo	The MAILING DATE of this communicat or Reply	tion appears on th	e cover sheet with th	e correspondence a	nddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic period for reply is specified above, the maximum statuto are to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF T 7 CFR 1.136(a). In no e cation. ry period will apply and v by statute, cause the ap	HIS COMMUNICATI vent, however, may a reply be vill expire SIX (6) MONTHS fi plication to become ABANDO	ON. timely filed mailing date of this over (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed o	on 14 December :	2005.					
2a)□	_	☐ This action is						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the ments is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	☑ Claim(s) <u>1 and 3-8</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>9-22</u> is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) 1 and 3-8 is/are rejected.							
7)	<u>_</u>							
8)□	_							
Applicati	ion Papers							
9)	The specification is objected to by the E.	xaminer.						
10)⊠ The drawing(s) filed on <u>14 December 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority doc	cuments have be	en received.					
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
P) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail	Date				
	nation Disclosure Statement(s) (PTO-1449 or PTC r No(s)/Mail Date	D/SB/08)	5) Notice of Informa 6) Other:	l Patent Application (PT	O-152)			

DETAILED ACTION

The Amendment, filed on December 14, 2005 has been entered and is acknowledged by the Examiner.

Cancellation of claim 2 has been entered.

The New Drawings (2/17 –8/17) and new Abstract submitted December 14, 2005 have been entered and are approved by the Examiner.

Claim Objections

Claim 1 is objected to because of the following informalities:

The limitation reciting 'that the electroluminescent layer is curved <u>in section</u>' is not very clear. Clarification is needed regarding what section is meant. For continuing examination, 'a section' of the electroluminescent layer is considered to be curved in a direction opposite to the convexly curved protrusion.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section

Application/Control Number: 10/630,089

Art Unit: 2879

351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3, 4,6 -8 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Application Publication 2002/0060518 to Duineveld et al.

Regarding claim 1 Duineveld discloses (Fig.2C page 8, [0117] –[0122]) an electroluminescent display comprising a substrate 102, an electrode 103 provided on the substrate, protrusions 108 provided on the substrate so as to cover the ends of the electrode 103 and are convexly curved in section relatively to the surface of the substrate, an electroluminescent layer (104 and 105) provided in each opening which is located on the electrode and defined by adjacent protrusions 108 wherein the electroluminescent layer is in contact with the protrusion around the boundary between the EL layer and the protrusion and is curved in section in a direction opposite to the convexly curved protrusion.

Regarding claim 3 Duineveld discloses the electroluminescent layer (104 and 105) around the boundary between the EL layer and the protrusion 108 is smooth and continuous in contact with the protrusion.

Regarding claim 4 it is clearly evident from Fig 2C that the sectional form of the protrusion 108 comprises a part of an arc.

Regarding claim 6 Duineveld discloses (Fig. 1a [0101]) the thickness (height) of the protrusion (first relief pattern8 and second relief pattern 9) is 7 μ m.

Regarding claim 7 Duineveld discloses (page 1 [0014], [0043], [0045]) the method of producing the EL display comprises the step of forming an organic layer on

Application/Control Number: 10/630,089

Art Unit: 2879

the surface of the substrate with protrusions provided thereon by using wet deposition method such as spin-coating or ink-jet printing.

Regarding claim 8 Duineveld discloses (Fig.4 [0125]) a mobile telephone comprising the electroluminescent display.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Application Publication 2003/0107314 to Urabe et al.

Regarding claim 1 Urabe discloses (Fig. 1 sections [0032]-[0035]) an electroluminescent display comprising a substrate 11, an electrode 12 provided on the substrate, protrusions (insulating layer) 13 provided on the substrate so as to cover the ends of the electrode and are convexly curved in section relatively to the surface of the substrate, an EL layer 14 provided in each opening located on the electrode and defined by the protrusions wherein the EL layer 14 in its part around the boundary between the EL layer 14 and the protrusion 13 is in contact with the protrusion and is curved in a direction opposite to the convexly curved protrusion.

Claims 1, 3- 5 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Application Publication 2003/0098645 to Lee et al.

Regarding claim 1 Lee discloses (Fig. 2, sections [0046] – [0050]) an organic EL display comprising a substrate 200, an anode electrode 270 provided on the substrate, protrusions (insulating layer) 280 which are convexly curved in section relatively to the surface of the substrate are provided on the substrate so as to cover the ends of the

Application/Control Number: 10/630,089

Art Unit: 2879

electrode 270, an electroluminescent layer 290 provided on the electrode 270 and in the opening defined by adjacent protrusions. Lee further discloses (Fig.2 column 3 sections [0049], [0050]) the organic EL layer 290 in its part around the boundary between the EL layer and the protrusion is in contact with the protrusion so that the EL layer is curved in a direction opposite to the convexly curved protrusion.

Referring to claim 3 it is evident from Fig. 2 that the EL layer in its part around the boundary between the EL layer and the protrusion is in smooth and continuous contact with the protrusion.

Regarding claim 4 Lee discloses (Fig.2) the sectional form of the protrusion comprises a part of an arc.

Referring to claim 5 Lee discloses in Fig.2 that the sectional form of the protrusion comprises a part of an arc and a flat part as an upper part which is extended continuously from the arc part.

Response to Arguments

Applicant's arguments filed December 14, 2005 have been fully considered but they are not persuasive.

In response to applicant's argument that Lee discloses all convexly curved portions facing the same direction the Examiner respectfully disagrees. Lee discloses in Fig. 2 the protrusions 280 having section which is convexly curved (center of curvature being inside the protrusion) relative to the surface of the substrate and the EL

Art Unit: 2879

layer 290 having section which is concavely curved, (center of curvature located outside) and hence is curved in a direction opposite to the convexly curved protrusion.

Regarding applicant's allegation of the two ends of organic EL layer 290 of Lee does not have the possibility to solve the problems of prior art the Examiner notes that these features are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikha Roy whose telephone number is (571) 272-2463. The examiner can normally be reached on Monday-Friday 8:00 a.m. – 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sikha Roy

Sikha Roy Patent Examiner Art Unit 2879